



1600

RAW SEQUENCE LISTING

DATE: 05/15/2003

PATENT APPLICATION: US/09/429,798A

TIME: 12:42:36

Input Set : A:\9233.8DV1.ST25.txt

Output Set: N:\CRF4\05152003\I429798A.raw

3 <110> APPLICANT: Ekwuribe, Nnochiri
 4 Radhakrishnan, Balasingam
 5 Price, Christopher
 6 Anderson, Wesley
 7 Ansari, Aslam
 9 <120> TITLE OF INVENTION: BLOOD-BRAIN BARRIER THERAPEUTICS
 11 <130> FILE REFERENCE: 9233.8DV1
 13 <140> CURRENT APPLICATION NUMBER: US 09/429,798A
 14 <141> CURRENT FILING DATE: 1999-10-29
 16 <150> PRIOR APPLICATION NUMBER: US 09/134,803
 17 <151> PRIOR FILING DATE: 1998-08-14
 19 <160> NUMBER OF SEQ ID NOS: 52
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 6
 25 <212> TYPE: PRT
 26 <213> ORGANISM: Artificial sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Synthetic construct
 32 <220> FEATURE:
 33 <221> NAME/KEY: MOD_RES
 34 <222> LOCATION: (6)..(6)
 35 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
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 39 Tyr Gly Gly Phe Met Lys
 40 1 5
 43 <210> SEQ ID NO: 2
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 54 <222> LOCATION: (1)..(1)
 55 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
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 58 <221> NAME/KEY: MOD_RES
 59 <222> LOCATION: (6)..(6)
 60 <223> OTHER INFORMATION: Polymer connected to epsilon-amino group
 62 <400> SEQUENCE: 2
 64 Tyr Gly Gly Phe Met Lys
 65 1 5

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79 <222> LOCATION: (1)..(1)
80 <223> OTHER INFORMATION: Polymer connected to alpha-amino group
82 <400> SEQUENCE: 3
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85 1 5
88 <210> SEQ ID NO: 4
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94 <223> OTHER INFORMATION: Synthetic construct
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98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (1)..(1)
100 <223> OTHER INFORMATION: ACETYLATION
102 <220> FEATURE:
103 <221> NAME/KEY: MOD_RES
104 <222> LOCATION: (6)..(6)
105 <223> OTHER INFORMATION: AMIDATION
107 <400> SEQUENCE: 4
109 Phe Arg Trp Trp Tyr Lys
110 1 5
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116 <213> ORGANISM: Artificial sequence
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124 <222> LOCATION: (1)..(1)
125 <223> OTHER INFORMATION: ACETYLATION
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128 <221> NAME/KEY: MOD_RES
129 <222> LOCATION: (6)..(6)
130 <223> OTHER INFORMATION: AMIDATION
132 <400> SEQUENCE: 5
134 Arg Trp Ile Gly Trp Lys
135 1 5
138 <210> SEQ ID NO: 6
139 <211> LENGTH: 6

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140 <212> TYPE: PRT
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143 <220> FEATURE:
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148 <221> NAME/KEY: MOD_RES
149 <222> LOCATION: (6)..(6)
150 <223> OTHER INFORMATION: AMIDATION
152 <220> FEATURE:
153 <221> NAME/KEY: MISC_FEATURE
154 <222> LOCATION: (6)..(6)
155 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
157 <400> SEQUENCE: 6
W--> 159 Trp Trp Pro Lys His Xaa
160 1 5
163 <210> SEQ ID NO: 7
164 <211> LENGTH: 4
165 <212> TYPE: PRT
166 <213> ORGANISM: Artificial sequence
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173 <221> NAME/KEY: MOD_RES
174 <222> LOCATION: (4)..(4)
175 <223> OTHER INFORMATION: AMIDATION
177 <220> FEATURE:
178 <221> NAME/KEY: MISC_FEATURE
179 <222> LOCATION: (4)..(4)
180 <223> OTHER INFORMATION: Xaa is either Lys or Arg
182 <400> SEQUENCE: 7
W--> 184 Trp Trp Pro Xaa
185 1
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200 <223> OTHER INFORMATION: AMIDATION
202 <220> FEATURE:
203 <221> NAME/KEY: MISC_FEATURE
204 <222> LOCATION: (6)..(6)
205 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
207 <400> SEQUENCE: 8
W--> 209 Tyr Pro Phe Gly Phe Xaa
210 1 5

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Input Set : A:\9233.8DV1.ST25.txt

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 215 <212> TYPE: PRT
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 222 <220> FEATURE:
 223 <221> NAME/KEY: MOD_RES
 224 <222> LOCATION: (1)..(5)
 225 <223> OTHER INFORMATION: Amino acids are in the D-form
 227 <220> FEATURE:
 228 <221> NAME/KEY: MOD_RES
 229 <222> LOCATION: (6)..(6)
 230 <223> OTHER INFORMATION: n is 0 or 1
 232 <220> FEATURE:
 233 <221> NAME/KEY: MISC_FEATURE
 234 <222> LOCATION: (7)..(7)
 235 <223> OTHER INFORMATION: Xaa is Gly or the D-form of any naturally occurring amino
 acid
 237 <220> FEATURE:
 238 <221> NAME/KEY: MOD_RES
 239 <222> LOCATION: (7)..(7)
 240 <223> OTHER INFORMATION: Amidation
 242 <400> SEQUENCE: 9
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 245 1 5
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 249 <211> LENGTH: 6
 250 <212> TYPE: PRT
 251 <213> ORGANISM: Artificial sequence
 253 <220> FEATURE:
 254 <223> OTHER INFORMATION: Synthetic construct
 257 <220> FEATURE:
 258 <221> NAME/KEY: MOD_RES
 259 <222> LOCATION: (1)..(4)
 260 <223> OTHER INFORMATION: Amino acids are in the D-form
 262 <220> FEATURE:
 263 <221> NAME/KEY: MISC_FEATURE
 264 <222> LOCATION: (6)..(6)
 265 <223> OTHER INFORMATION: Xaa is Gly or the D-form of any naturally occurring amino
 acid
 267 <220> FEATURE:
 268 <221> NAME/KEY: MOD_RES
 269 <222> LOCATION: (6)..(6)
 270 <223> OTHER INFORMATION: AMIDATION
 272 <400> SEQUENCE: 10
 W--> 274 Ile Met Thr Trp Gly Xaa
 275 1 5
 278 <210> SEQ ID NO: 11
 279 <211> LENGTH: 4
 280 <212> TYPE: PRT

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281 <213> ORGANISM: Artificial sequence
 283 <220> FEATURE:
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 287 <220> FEATURE:
 288 <221> NAME/KEY: MISC_FEATURE
 289 <222> LOCATION: (2)..(2)
 290 <223> OTHER INFORMATION: Xaa is A1, wherein A1 is the D-form of Nve or Mle
 292 <220> FEATURE:
 293 <221> NAME/KEY: MISC_FEATURE
 294 <222> LOCATION: (3)..(3)
 295 <223> OTHER INFORMATION: Xaa is B2, wherein B2 is Gly, Phe, or Trp
 297 <220> FEATURE:
 298 <221> NAME/KEY: MISC_FEATURE
 299 <222> LOCATION: (4)..(4)
 300 <223> OTHER INFORMATION: Xaa is C3, wherein C3 is Trp or Nap
 302 <220> FEATURE:
 303 <221> NAME/KEY: MOD_RES
 304 <222> LOCATION: (4)..(4)
 305 <223> OTHER INFORMATION: AMIDATION
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W--> 309 Tyr Xaa Xaa Xaa
 310 1
 313 <210> SEQ ID NO: 12
 314 <211> LENGTH: 3
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 319 <223> OTHER INFORMATION: Synthetic construct
 322 <220> FEATURE:
 323 <221> NAME/KEY: MOD_RES
 324 <222> LOCATION: (1)..(1)
 325 <223> OTHER INFORMATION: Tyr has at its N-terminus a Me-x-H-y-N group, wherein x is
 0, 1,
 326 or 2; and y is 0, 1, or 2, with the proviso that x and y is never
 327 greater than 2
 329 <220> FEATURE:
 330 <221> NAME/KEY: MOD_RES
 331 <222> LOCATION: (1)..(2)
 332 <223> OTHER INFORMATION: The amine between the first Tyr and the second Tyr is
 methylated,
 333 wherein z is 0 or 1
 335 <220> FEATURE:
 336 <221> NAME/KEY: MISC_FEATURE
 337 <222> LOCATION: (3)..(3)
 338 <223> OTHER INFORMATION: Xaa is Xaa-z, wherein Xaa is Phe, D-Phe or NHBzl, and
 wherein z
 339 is 0 or 1
 341 <220> FEATURE:
 342 <221> NAME/KEY: MOD_RES
 343 <222> LOCATION: (3)..(3)
 344 <223> OTHER INFORMATION: AMIDATION
 346 <400> SEQUENCE: 12

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/429,798A

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Input Set : A:\9233.8DV1.ST25.txt
Output Set: N:\CRF4\05152003\I429798A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 6
Seq#:7; Xaa Pos. 4
Seq#:8; Xaa Pos. 6
Seq#:9; Xaa Pos. 7
Seq#:10; Xaa Pos. 6
Seq#:11; Xaa Pos. 2, 3, 4
Seq#:12; Xaa Pos. 3
Seq#:13; Xaa Pos. 4, 6
Seq#:14; Xaa Pos. 2
Seq#:15; Xaa Pos. 2
Seq#:16; Xaa Pos. 2
Seq#:17; Xaa Pos. 2
Seq#:18; Xaa Pos. 2
Seq#:19; Xaa Pos. 2
Seq#:20; Xaa Pos. 2
Seq#:21; Xaa Pos. 2
Seq#:22; Xaa Pos. 2
Seq#:23; Xaa Pos. 2
Seq#:24; Xaa Pos. 2
Seq#:25; Xaa Pos. 2
Seq#:26; Xaa Pos. 2
Seq#:27; Xaa Pos. 2
Seq#:28; Xaa Pos. 2
Seq#:29; Xaa Pos. 2
Seq#:30; Xaa Pos. 2
Seq#:31; Xaa Pos. 2
Seq#:32; Xaa Pos. 2
Seq#:33; Xaa Pos. 2
Seq#:34; Xaa Pos. 2
Seq#:35; Xaa Pos. 2, 3
Seq#:36; Xaa Pos. 2
Seq#:37; Xaa Pos. 2
Seq#:38; Xaa Pos. 2
Seq#:39; Xaa Pos. 2
Seq#:40; Xaa Pos. 2
Seq#:41; Xaa Pos. 2
Seq#:42; Xaa Pos. 2
Seq#:43; Xaa Pos. 2
Seq#:44; Xaa Pos. 2
Seq#:45; Xaa Pos. 2
Seq#:46; Xaa Pos. 2
Seq#:47; Xaa Pos. 2

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/429,798A

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Input Set : A:\9233.8DV1.ST25.txt

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L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1024 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:1204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0